Aadesh U Pokhrel

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PROFESSIONAL SUMMARY

Dynamic Software Engineer skilled in building scalable, cloud-native solutions with **Java Spring Boot, AWS,** and microservices architecture. Experienced in **Apache Kafka, Google Maps API,** real-time optimization,**DevOps, mobile development,** and responsive **UI/UX** design for high-performance applications.

EXPERIENCE

Zoho Corporation   Jan 2021 – Nov 2022
Software Engineer   *India*

- Led the integration of Java Spring Boot microservices with AWS cloud infrastructure and Apache Kafka, utilizing services like AWS Lambda and Amazon EC2 to achieve a 30% boost in scalability and resource efficiency.
- Provided mentorship to junior developers, guiding them in Java best practices, Apache Kafka architecture, and AWS cloud solutions, creating a collaborative and growth-oriented team environment.
- Developed and optimized RESTful APIs using Spring Boot, streamlining communication between frontend and backend systems, and reducing API response times by 25%.
- Played a key role in migrating legacy monolithic applications to a microservices-based architecture, reducing technical debt and enabling faster feature delivery cycles.
- Participated in on-call rotations to triage and resolve backend service issues, improving uptime and response time.

Tech Stack: Java, Spring Boot, Apache Kafka, AWS (Lambda, EC2, S3, CloudWatch), Jenkins, SQL, RESTful APIs, Kafka Streams, TDD, Microservices Architecture.

TECHNICAL SKILLS

Programming Languages: Java / J2EE, JavaScript, CSS, HTML5, Python, Go
Frameworks: Spring Boot, Spring Microservices, Spring MVC, Hibernate, Apache Kafka, React
Cloud Technologies: AWS (Amazon Web Services), AWS Lambda, Amazon RDS, Amazon EC2
Testing & Integration:JUnit, Test-Driven Development, Jenkins, Selenium, Mockito, GitLab CI/CD Database
Management:MySQL, PostgreSQL, MongoDB, Firebase
DevOps & Cloud:AWS, Google Cloud Platform, Docker, Terraform
Certifications: AWS Certified Cloud Practitioner - Dec 2024

EDUCATION

University of North Texas   Denton, TX
Master of Science in Computer Science, Minor in Artificial Intelligence   *Jan. 2023 – Dec 2024*

Sri Krishna College of Engineering   Coimbatore , India
Bachelors in Electrical Engineering   *Aug. 2018 – May 2022*

PROJECTS

SmartRoute - Intelligent Route Optimization | *Next.js, TypeScript, Google Maps API, NextAuth.js.*

- Architected a route optimization platform using Next.js 14+ and TypeScript, enabling real-time waypoint optimization for multi-pickup and drop-off planning.
- Integrated Google Maps API for intelligent address parsing, dynamic route visualization, and autocomplete functionality, enhancing precision and user engagement.
- Designed a secure, scalable, and mobile-first application with NextAuth.js, Google OAuth, and Tailwind CSS,ensuring seamless authentication and cross-device responsiveness.

PizzaStore - Streamlined Pizza Ordering Application | *React, Redux, Geolocation API, Responsive UI.*

- Engineered a high-performance pizza ordering platform using Vite.js, implementing features such as dynamic cart management, real-time updates, and a streamlined checkout process to optimize user engagement.
- Integrated geolocation API for automatic user location detection, improving delivery precision and enhancing customer convenience.
- Designed and deployed a responsive, mobile-first user interface with modern UI/UX best practices, increasing accessibility and user satisfaction.
- Streamlined development workflows by automating setup processes with npm scripts and leveraging a modular codebase, enabling rapid iterations and collaborative contributions.